

Lesson 7-6

Percents, Fractions and
Decimals

Objective:

SWBAT find equivalent forms of fractions,
decimals and percents

GoOnline!

Homework Video Tutor

Web Code: aqe-0706

Directions:

- 1) Color any 32 blocks **GREEN** and fill out the chart with what you know.
- 2) We will go over it as a class.
- 3) Pick **two** other colors, and use them to color the remainder of the grid (you can color as much as you want with both colors). Fill out the chart for those two colors

NAME _____

Color	Number	Fraction	Decimal	Percent

Fract

Vocabulary

A percent is a ratio that compares a number to 100. A fraction out of 100.

Examples

- ① **Representing Percents** Write 4% as a fraction. Write your answer in simplest form.

$$4\% = \frac{4}{100}$$

← Write the percent as a fraction with a denominator of 100.

$$\frac{4}{100} \div 4 = \frac{1}{25}$$

$$= \frac{1}{25}$$

← Write the fraction in simplest form.

- ② **Writing a Percent as a Decimal** Write each percent as a decimal.

a. 87%

b. 9%

$$87\% = \frac{87}{100}$$

Write each percent as a fraction with a denominator of 100.

$$9\% = \frac{9}{100}$$

$$87\% = 0.87$$

$$= 0.87$$

Write each fraction as a decimal.

$$= 0.09$$

$$9\% = 0.09$$

Examples

- ③ **Writing a Decimal as a Percent** Write 0.16 decimal as a percent.

$$0.16 = \frac{16}{100} = 16\%$$

← Write the decimal as a fraction with a denominator of 100.

$$0.16 = 16\%$$

- ④ **Writing a Fraction as a Percent** Write $\frac{7}{20}$ as a percent.

$$\frac{7}{20} = \frac{p}{100}$$

← Write a proportion. Percents have 100 in the denominator.

$$\frac{7}{20} \times 5 = \frac{35}{100}$$

← Find the fraction with a denominator of 100 equal to $\frac{7}{20}$.

$$\frac{7}{20} = \frac{35}{100} = 35\%$$

← Write using a percent symbol.

Quick Check

3. Write each decimal as a percent.

a. 0.52

b. 0.05

c. 0.5

Practice 7-6

Write each percent as a decimal and as a fraction in simplest form.

1. 46% _____

2. 17% _____

3. 90% _____

Write each decimal as a percent and as a fraction in simplest form.

4. 0.02 _____

5. 0.45 _____

6. 0.4 _____

Write each fraction as a decimal and as a percent.

7. $\frac{3}{5}$ _____

8. $\frac{7}{10}$ _____

9. $\frac{13}{25}$ _____

The table shows the fraction of students who participated in extracurricular activities from 1965 to 2000. Complete the table by writing each fraction as a percent.

Students' Extracurricular Choices

Year	1965	1970	1975	1980	1985	1990	1995	2000
Student participation (fraction)	$\frac{3}{4}$	$\frac{8}{10}$	$\frac{17}{20}$	$\frac{39}{50}$	$\frac{21}{25}$	$\frac{19}{25}$	$\frac{87}{100}$	$\frac{9}{10}$
Student participation (percent)								

Write each fraction or decimal as a percent. Write the percent (without the percent sign) in the puzzle. ★

Across

1. $\frac{3}{5}$

2. $\frac{1}{5}$

3. 0.55

4. $\frac{1}{100}$

5. 0.23

6. $\frac{7}{20}$

Down

1. $\frac{13}{20}$

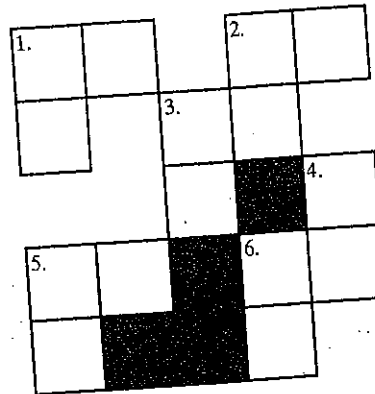
2. 0.25

3. $\frac{1}{2}$

4. $\frac{3}{20}$

5. 0.24

6. $\frac{3}{10}$



circled

Show your work for all problems on the back.

